

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	31.89	24.74	38.45	PASS
GSM850	190	5	32.21	25.06	38.45	PASS
GSM850	251	5	32.21	25.06	38.45	PASS
GSM1900	512	0	29.13	26.13	33.00	PASS
GSM1900	661	0	29.39	26.39	33.00	PASS
GSM1900	810	0	29.32	26.32	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	31.94	24.79	38.45	PASS
GPRS850	128	5	2	31.20	24.05	38.45	PASS
GPRS850	128	5	3	29.19	22.04	38.45	PASS
GPRS850	128	5	4	27.96	20.81	38.45	PASS
GPRS850	190	5	1	32.25	25.1	38.45	PASS
GPRS850	190	5	2	31.47	24.32	38.45	PASS
GPRS850	190	5	3	29.47	22.32	38.45	PASS
GPRS850	190	5	4	28.23	21.08	38.45	PASS
GPRS850	251	5	1	32.25	25.1	38.45	PASS
GPRS850	251	5	2	31.53	24.38	38.45	PASS
GPRS850	251	5	3	29.60	22.45	38.45	PASS
GPRS850	251	5	4	28.37	21.22	38.45	PASS
GPRS1900	512	0	1	29.16	26.16	33.00	PASS
GPRS1900	512	0	2	28.14	25.14	33.00	PASS
GPRS1900	512	0	3	25.86	22.86	33.00	PASS
GPRS1900	512	0	4	24.61	21.61	33.00	PASS
GPRS1900	661	0	1	29.37	26.37	33.00	PASS
GPRS1900	661	0	2	28.38	25.38	33.00	PASS
GPRS1900	661	0	3	26.12	23.12	33.00	PASS
GPRS1900	661	0	4	24.85	21.85	33.00	PASS
GPRS1900	810	0	1	29.30	26.3	33.00	PASS
GPRS1900	810	0	2	28.38	25.38	33.00	PASS
GPRS1900	810	0	3	26.24	23.24	33.00	PASS
GPRS1900	810	0	4	24.98	21.98	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.64	13	PASS
GSM1900	661	0	2.64	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

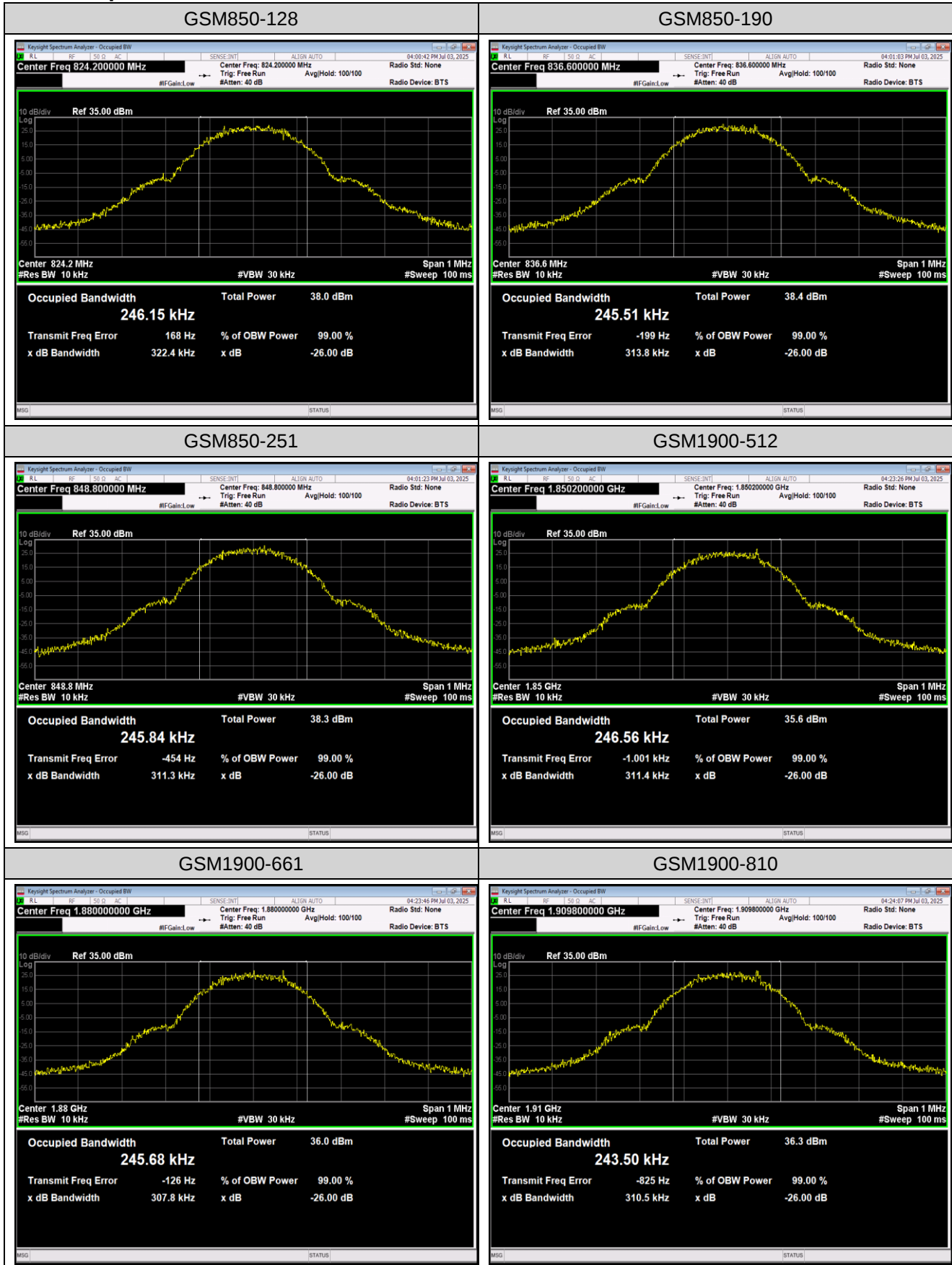


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24615	0.3224	---	PASS
GSM850	190	5	0.24551	0.3138	---	PASS
GSM850	251	5	0.24584	0.3113	---	PASS
GSM1900	512	0	0.24656	0.3114	---	PASS
GSM1900	661	0	0.24568	0.3078	---	PASS
GSM1900	810	0	0.24350	0.3105	---	PASS

Test Graphs

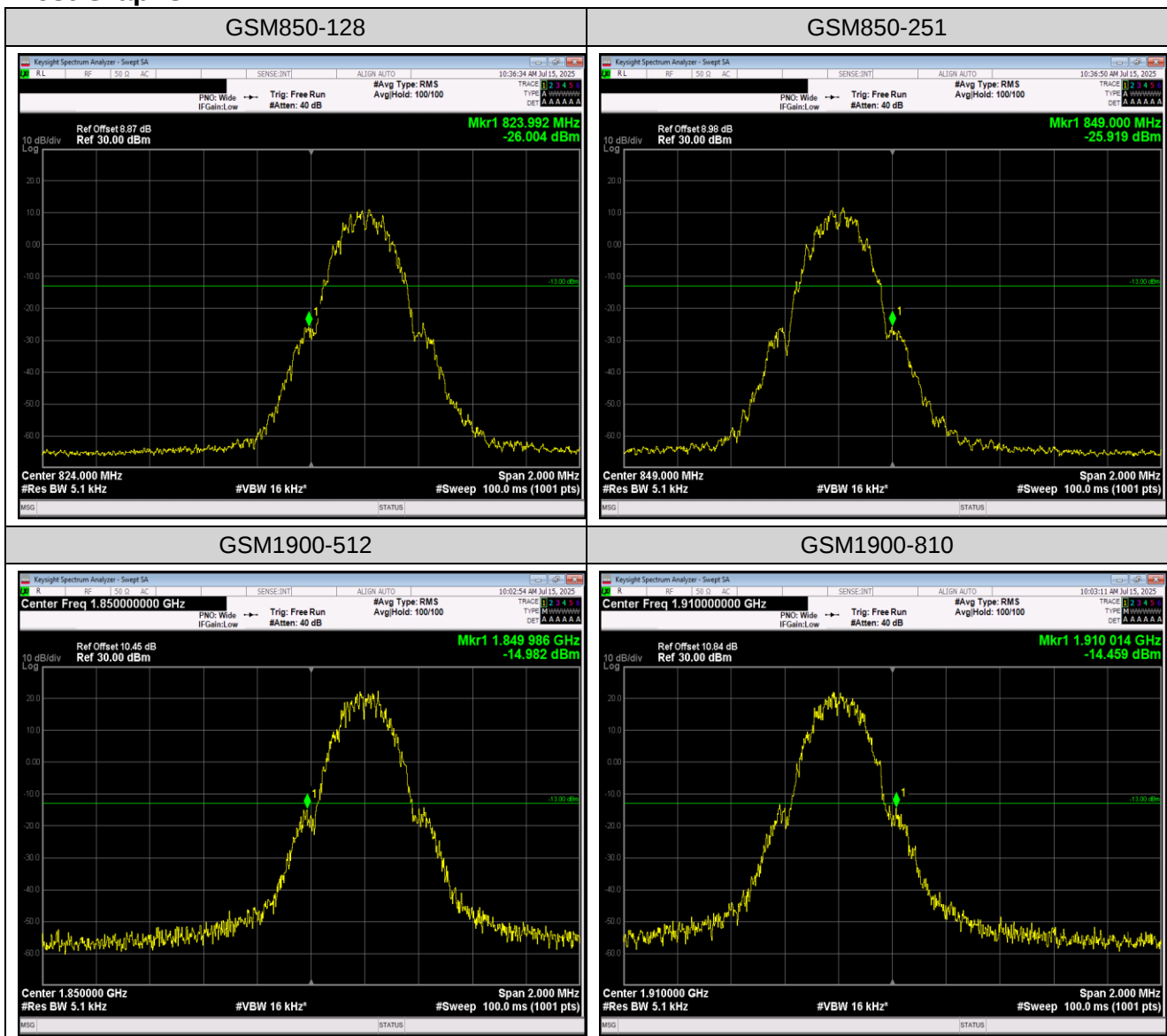


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-26.00	-13	PASS
GSM850	251	5	849.00	-25.92	-13	PASS
GSM1900	512	0	1849.99	-14.98	-13	PASS
GSM1900	810	0	1910.01	-14.46	-13	PASS

Test Graphs



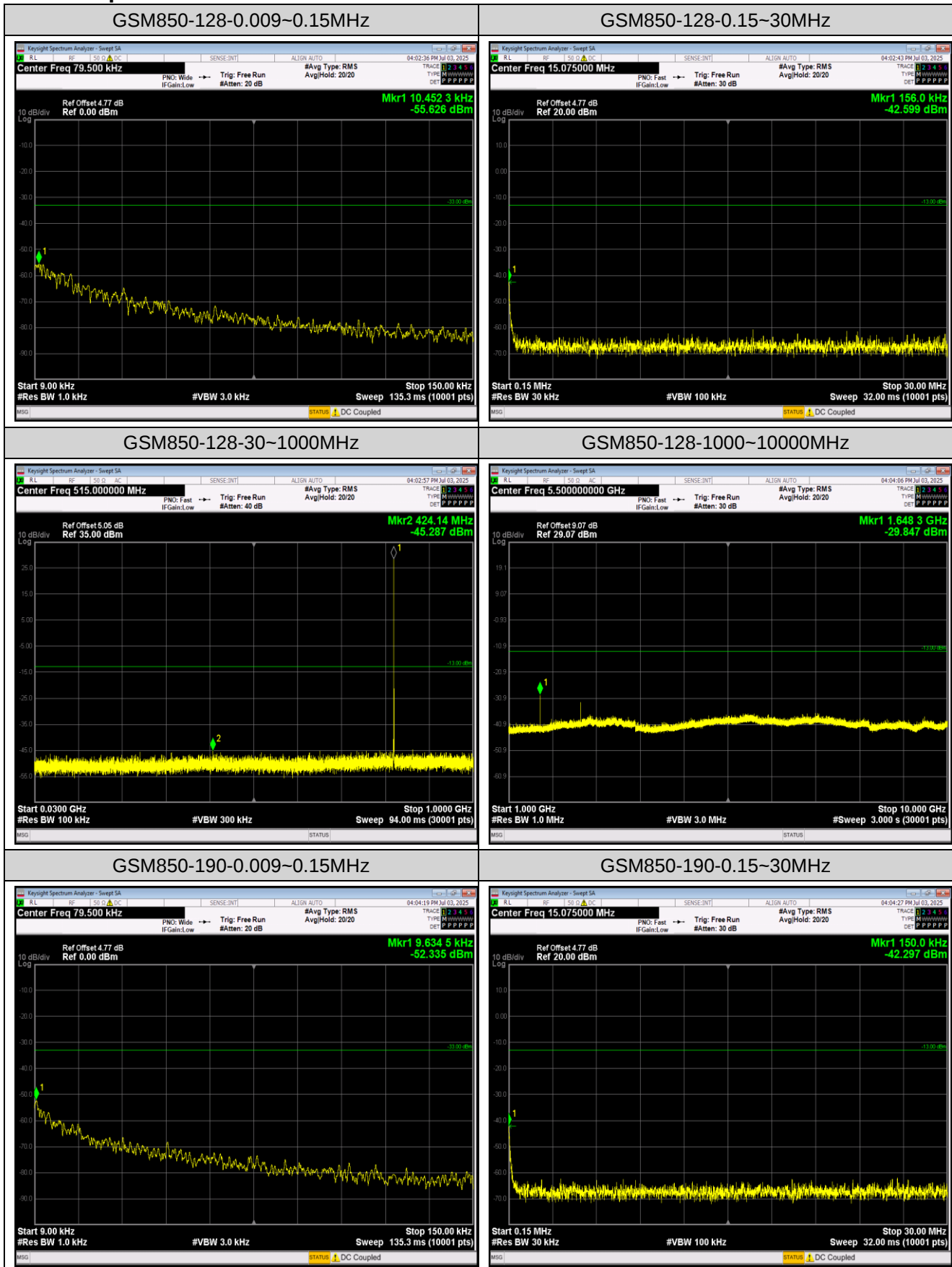
Appendix E: Conducted Spurious Emission

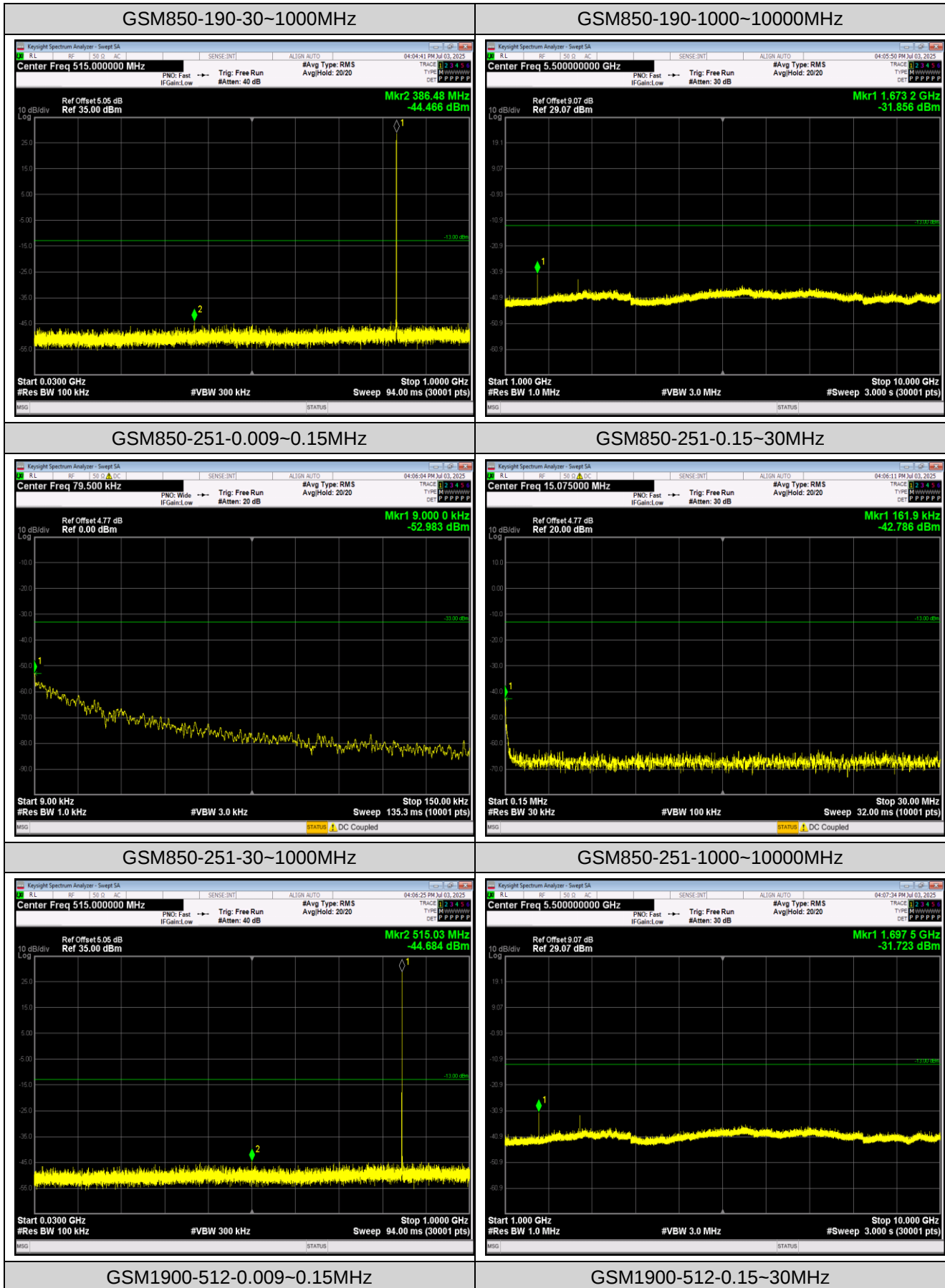
Test Result

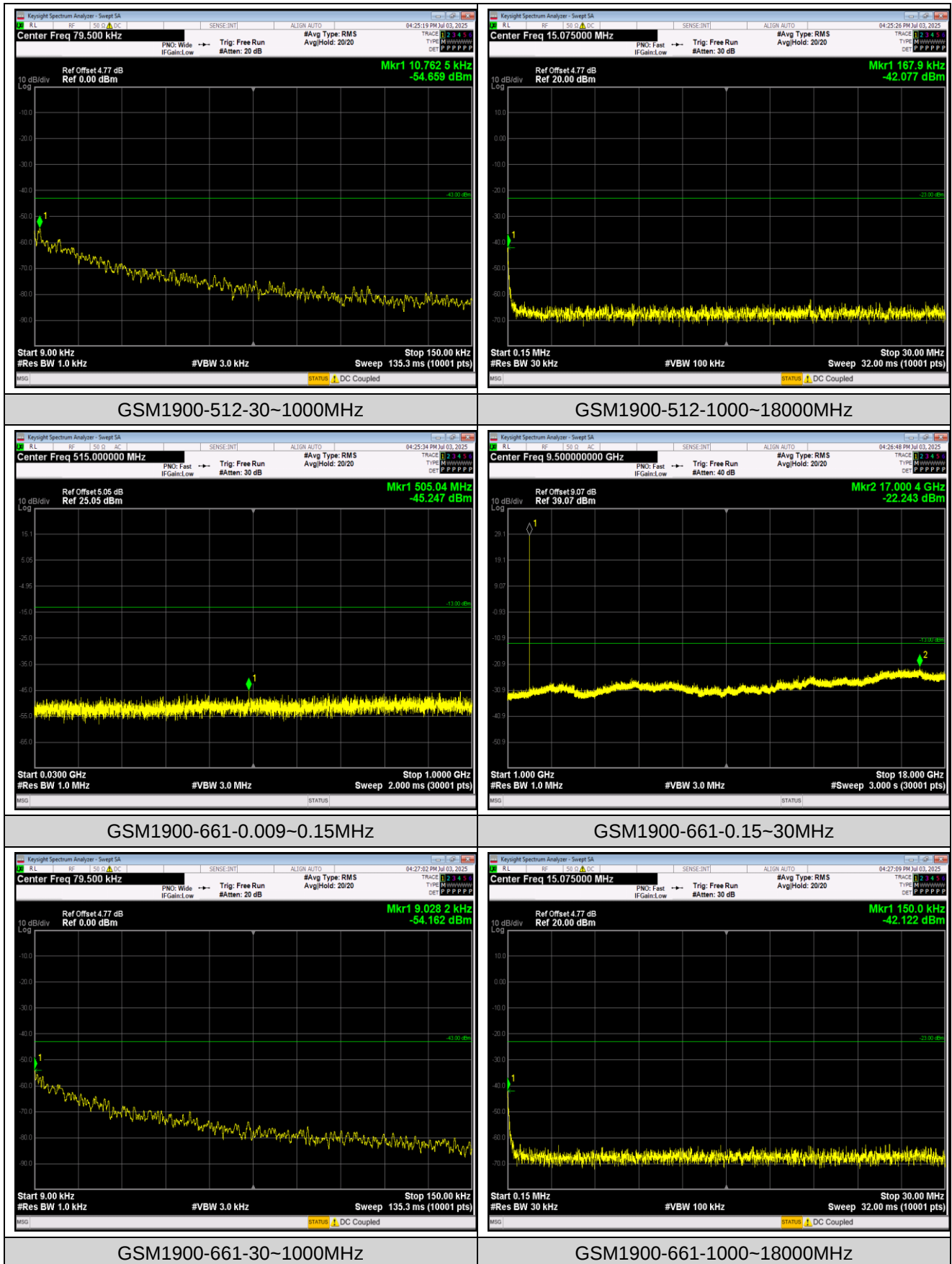
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.63	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-42.6	-13	PASS
GSM850	128	5	30~1000MHz	424.14	-45.29	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-29.85	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-52.34	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.3	-13	PASS
GSM850	190	5	30~1000MHz	386.48	-44.47	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-31.86	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-52.98	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-42.79	-13	PASS
GSM850	251	5	30~1000MHz	515.03	-44.68	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-31.72	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.66	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-42.08	-23	PASS
GSM1900	512	0	30~1000MHz	505.04	-45.25	-13	PASS
GSM1900	512	0	1000~18000MHz	17000.4	-22.24	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.16	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.12	-23	PASS
GSM1900	661	0	30~1000MHz	814.25	-44.78	-13	PASS
GSM1900	661	0	1000~18000MHz	15655.7	-21.62	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.06	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.11	-23	PASS
GSM1900	810	0	30~1000MHz	807.16	-44.8	-13	PASS
GSM1900	810	0	1000~18000MHz	16963.57	-21.93	-13	PASS

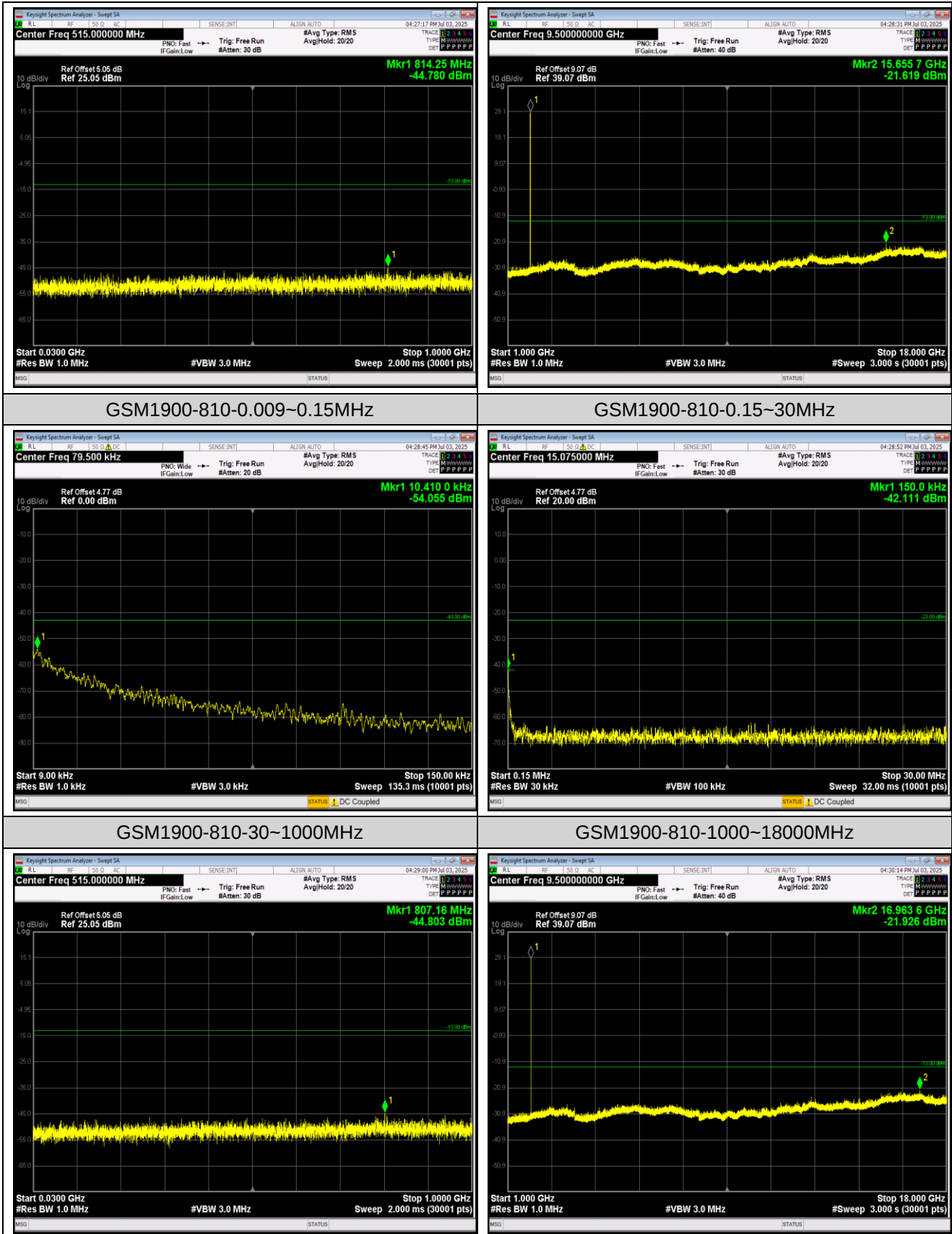
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-4.20	-0.005020	±2.5	Pass
	-20	-1.84	-0.002199		
	-10	-3.20	-0.003825		
	0	-2.84	-0.003395		
	10	-0.26	-0.000311		
	20	-2.97	-0.003550		
	30	-4.42	-0.005283		
	40	-5.33	-0.006371		
	50	0.71	0.000849		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.45	-0.000538	±2.5	Pass
	3.85	-3.33	-0.003980		
	4.40	-3.75	-0.004482		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-12.53	-0.006665	Within authorized band for PCS 1900	Pass
	-20	-13.37	-0.007112		
	-10	-4.97	-0.002644		
	0	-9.91	-0.005271		
	10	-7.33	-0.003899		
	20	-7.39	-0.003931		
	30	-5.07	-0.002697		
	40	-8.75	-0.004654		
	50	-10.56	-0.005617		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-9.59	-0.005101	Within authorized band for PCS 1900	Pass
	3.85	-10.40	-0.005532		
	4.40	-13.95	-0.007420		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

